FIG. 1

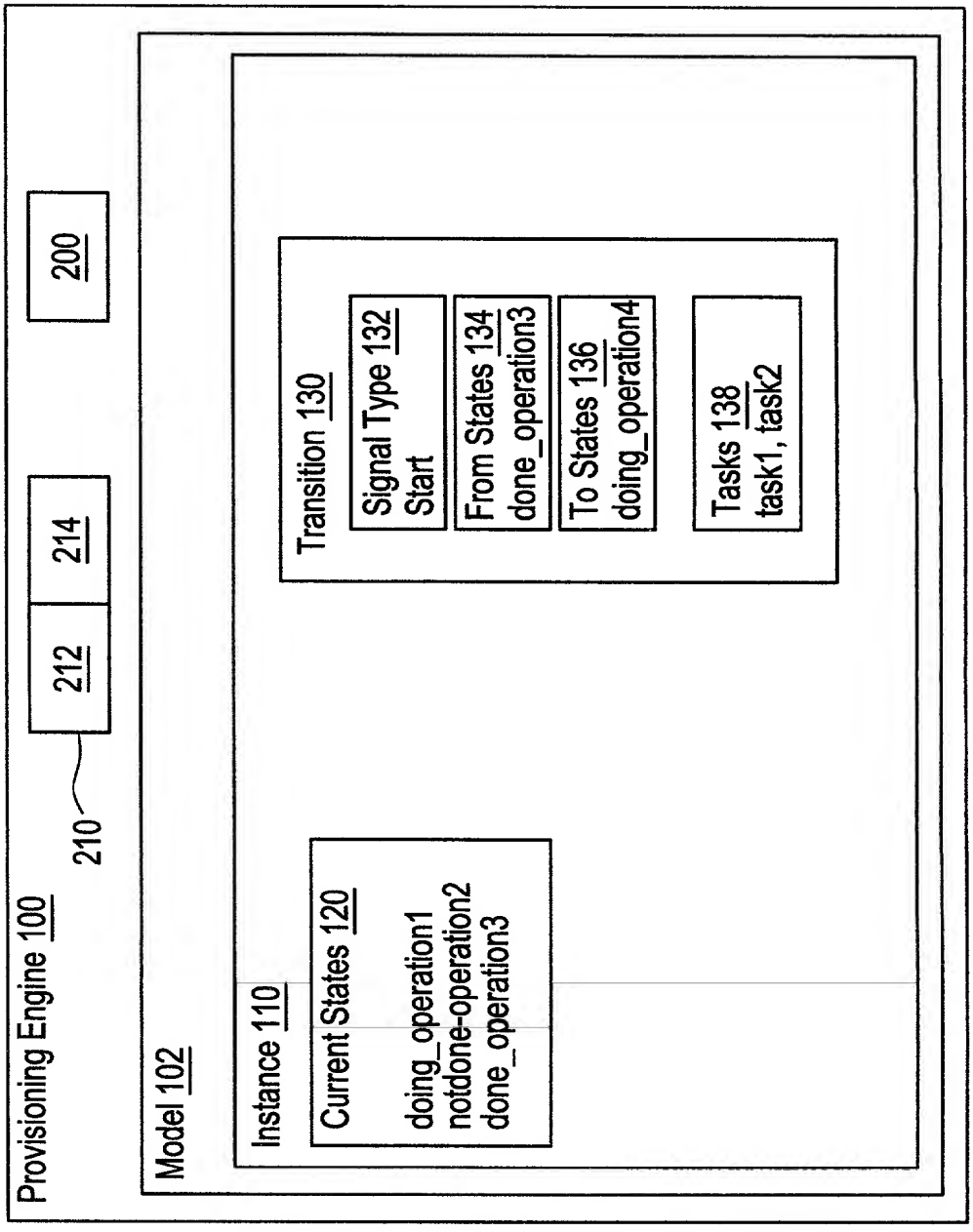
Provisioning Engine 100
210
212
214
200
Model 102
Instance 110
Current States 120
doing_operation1
notdone-operation2
done_operation3
Transition 130
Signal Type 132
Start
From States 134
done_operation3
To States 136
doing_operation4
Tasks 138
task1, task2

FIG. 2

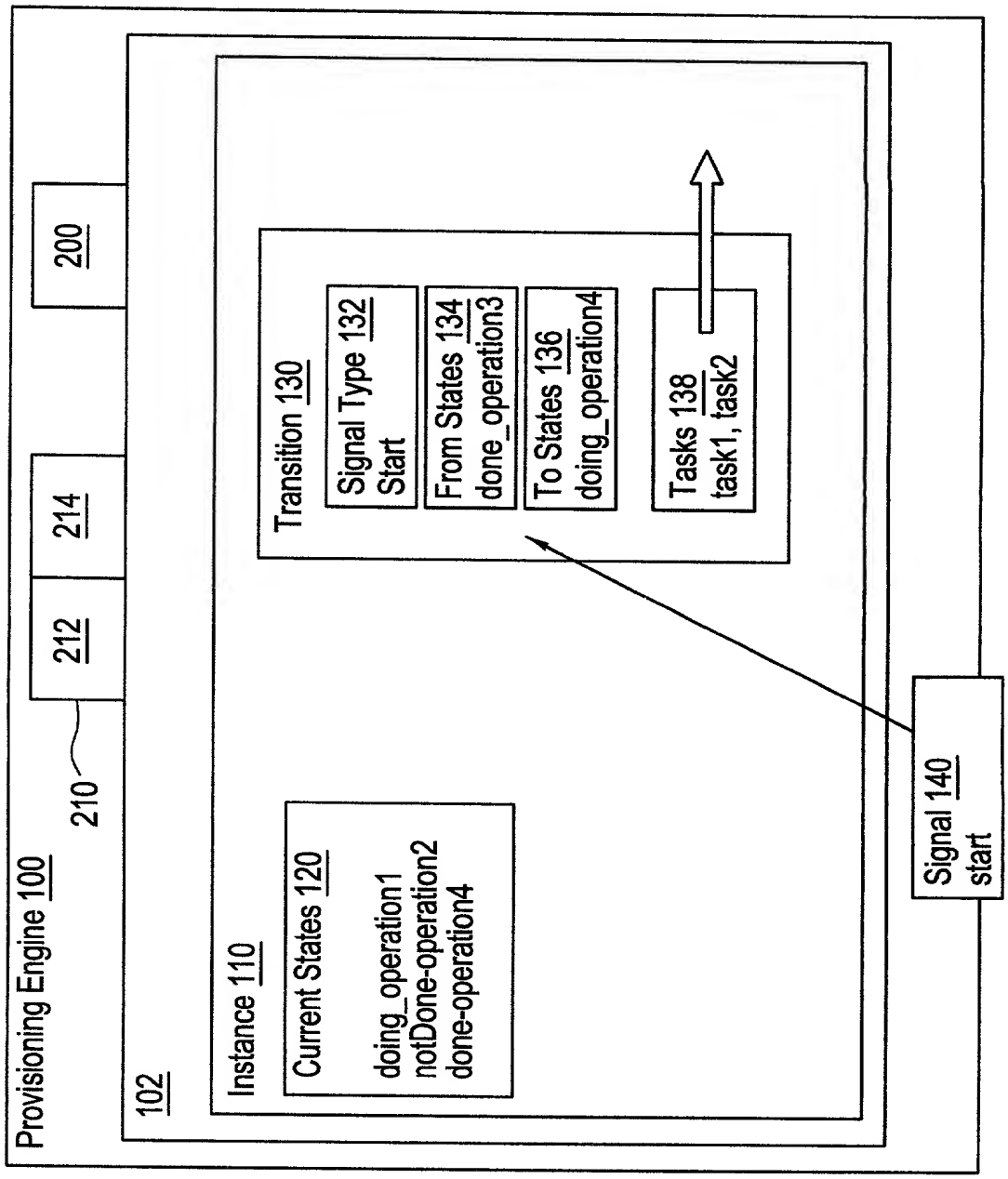
Provisioning Engine 100
210
212
214
200
102
Instance 110
Current States 120
doing_operation1
notDone-operation2
done-operation4
Transition 130
Signal Type 132
Start
From States 134
done_operation3
To States 136
doing_operation4
Tasks 138
task1, task2
Signal 140
start

FIG. 3

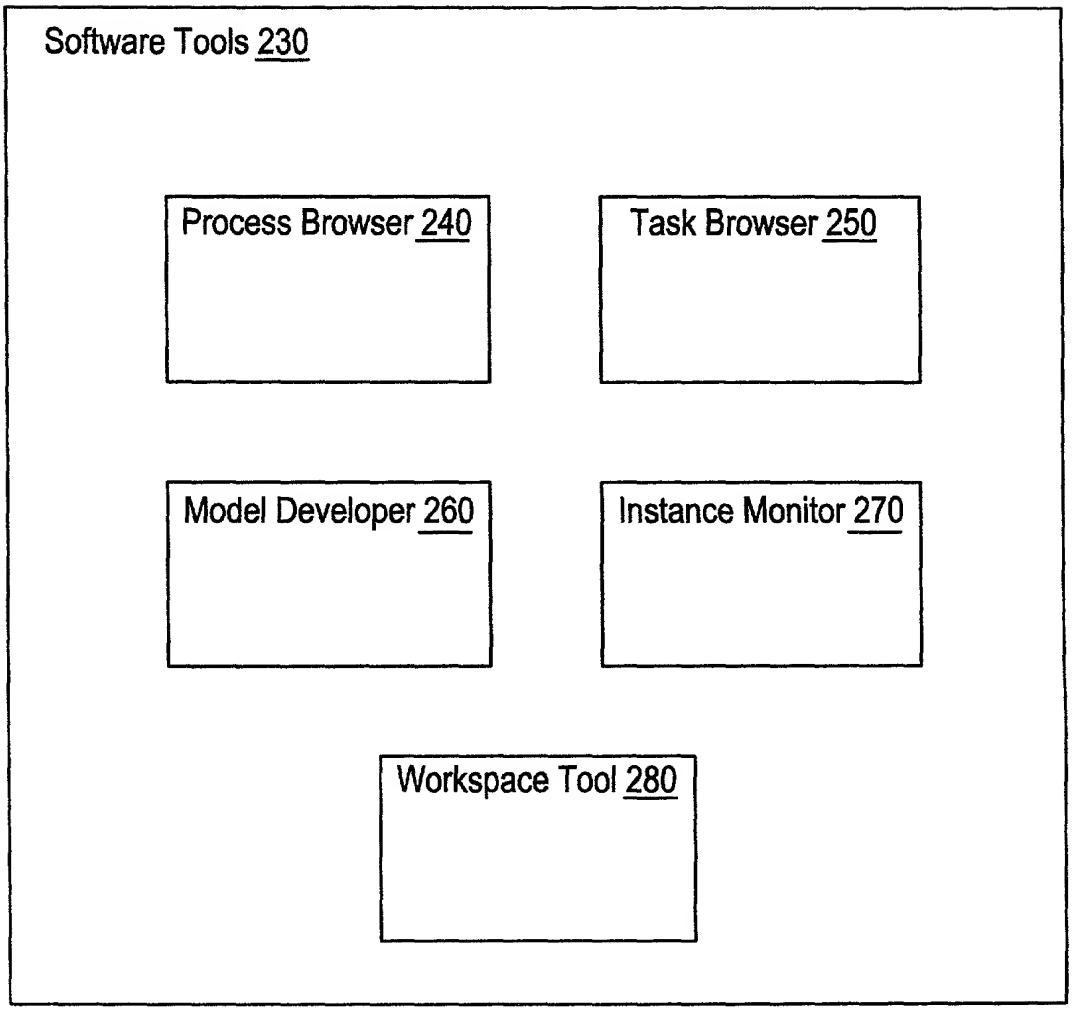

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FIG. 4

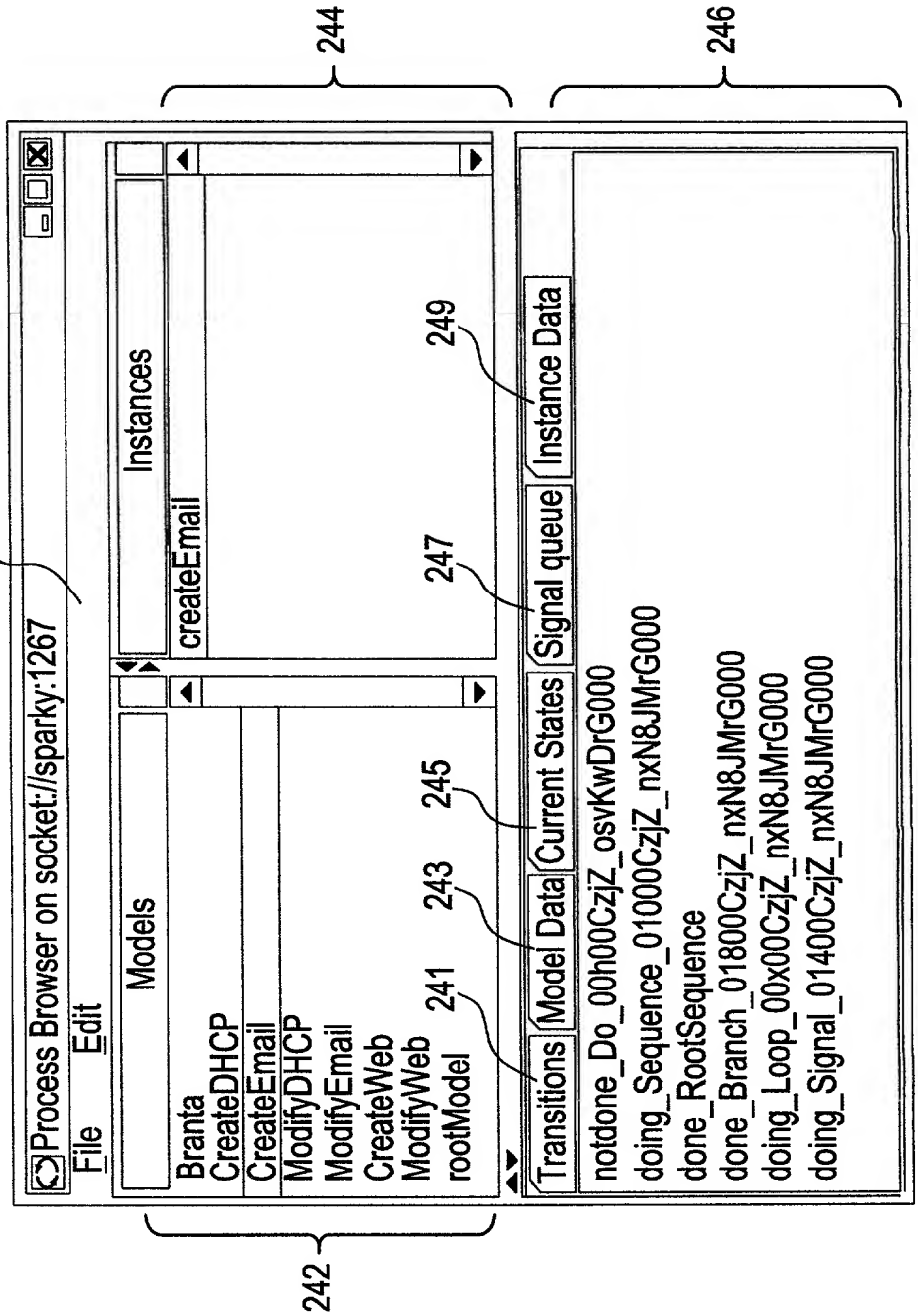

248
Process Browser on socket://sparky:1267
File
Edit
Models
Branta
CreateDHCP
CreateEmail
ModifyDHCP
ModifyEmail
CreateWeb
ModifyWeb
rootModel
241
243
245
247
249
Instances
createEmail
Transitions
Model Data
Current States
Signal queue
Instance Data
notdone_Do_00h00CzjZ_osvKwDrG000
doing_Sequence_01000CzjZ_nxN8JMrG000
done_RootSequence
done_Branch_01800CzjZ_nxN8JMrG000
doing_Loop_00x00CzjZ_nxN8JMrG000
doing_Signal_01400CzjZ_nxN8JMrG000
242
244
246

FIG. 5

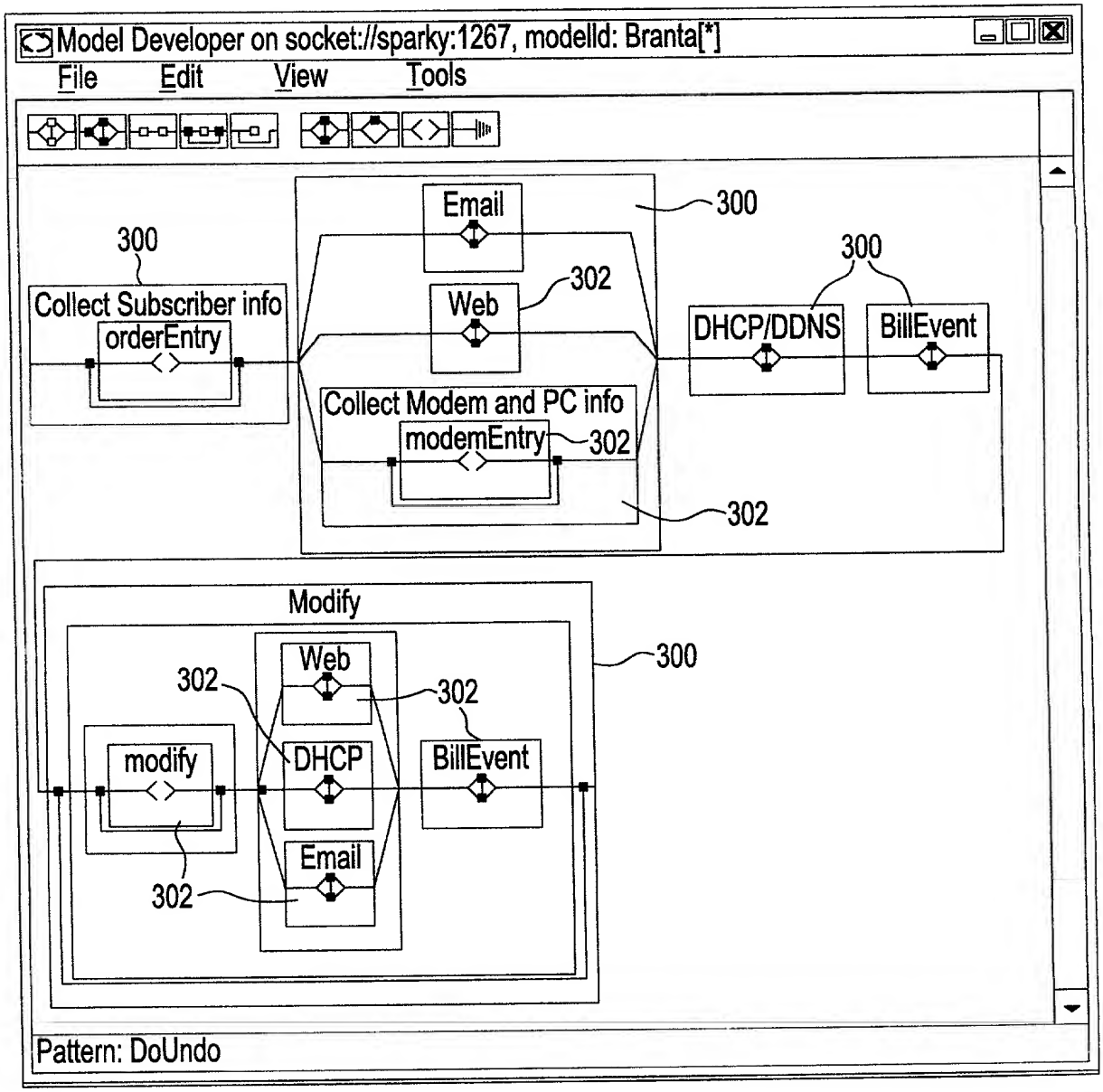

Model Developer on socket://sparky:1267, modelId: Branta[*]
File
Edit
View
Tools
Email
300
300
Collect Subscriber info
orderEntry
Web
302
300
DHCP/DDNS
BillEvent
Collect Modem and PC info
modemEntry
302
302
Modify
Web
302
302
300
modify
DHCP
BillEvent
Email
302
Pattern: DoUndo

FIG. 6

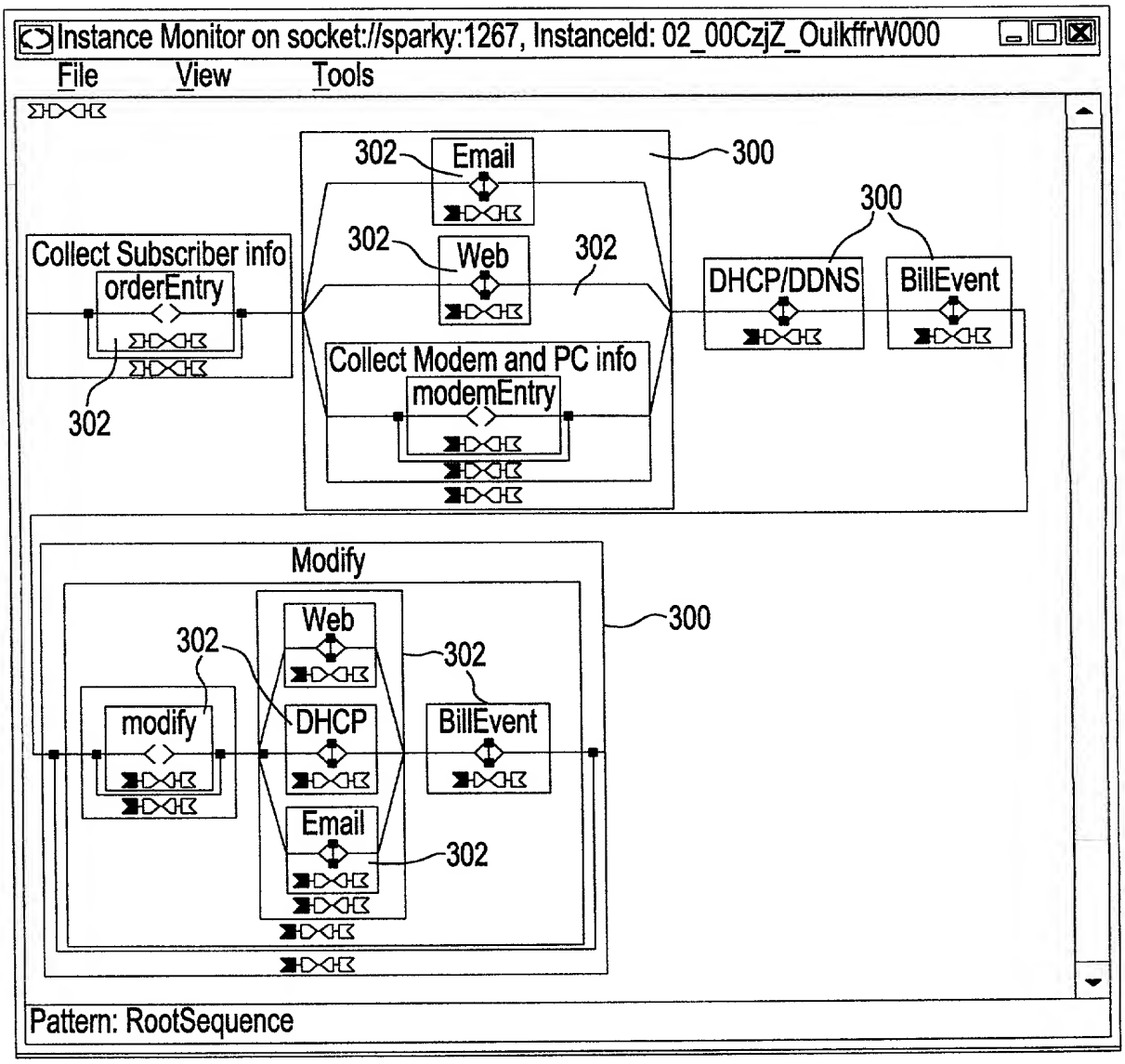

Instance Monitor on socket://sparky:1267, InstanceId: 02_00CzjZ_OulkffrW000
File
View
Tools
302
Email
300
300
Collect Subscriber info
orderEntry
302
Web
302
DHCP/DDNS
BillEvent
Collect Modem and PC info
modemEntry
302
Modify
300
Web
302
302
modify
DHCP
BillEvent
Email
302
Pattern: RootSequence

FIG. 7

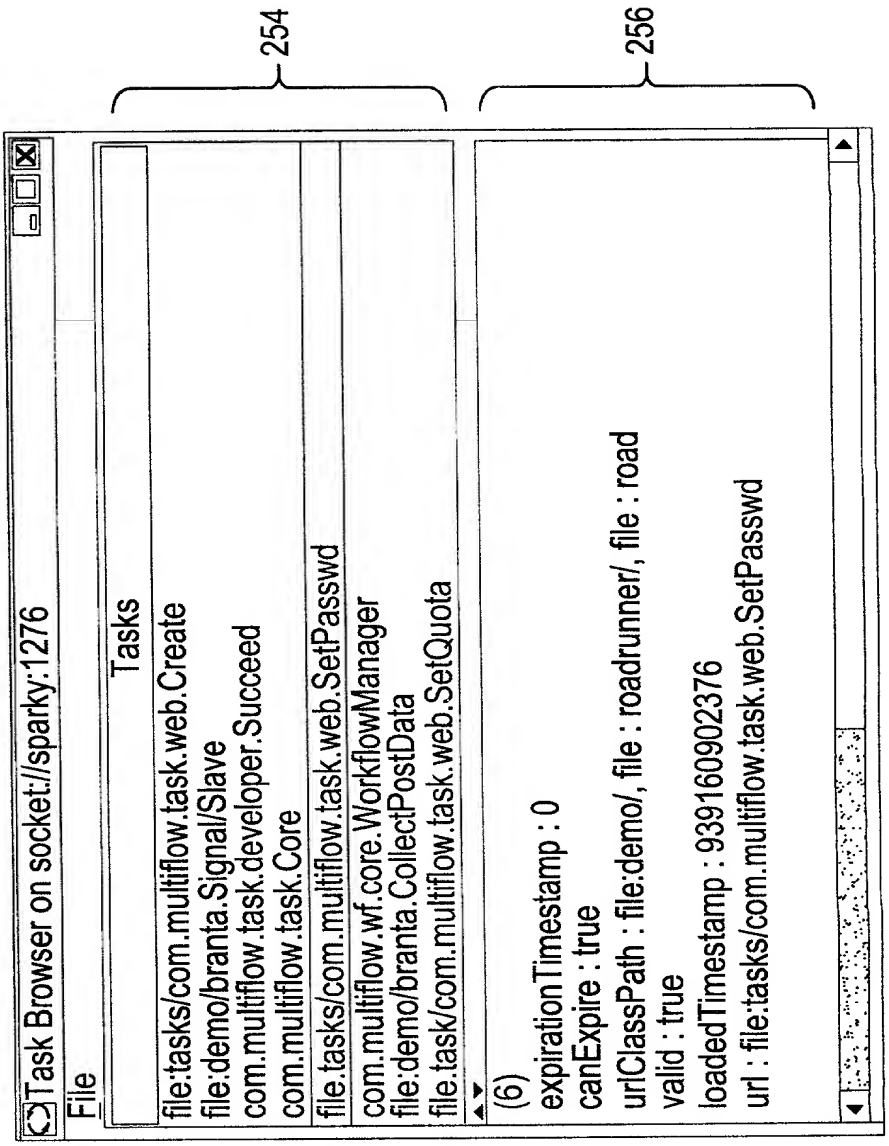

Task Browser on socket://sparky:1276
File
Tasks
file:tasks/com.multiflow.task.web.Create
file:demo/branta.Signal/Slave
com.multiflow.task.developer.Succeed
com.multiflow.task.Core
file.tasks/com.multiflow.task.web.SetPasswd
com.multiflow.wf.core.WorkflowManager
file:demo/branta.CollectPostData
file.task/com.multiflow.task.web.SetQuota
(6)
expirationTimestamp : 0
canExpire : true
urlClassPath : file:demo/, file : roadrunner/, file : road
valid : true
loadedTimestamp : 939160902376
url : file:tasks/com.multiflow.task.web.SetPasswd
254
256

FIG. 8

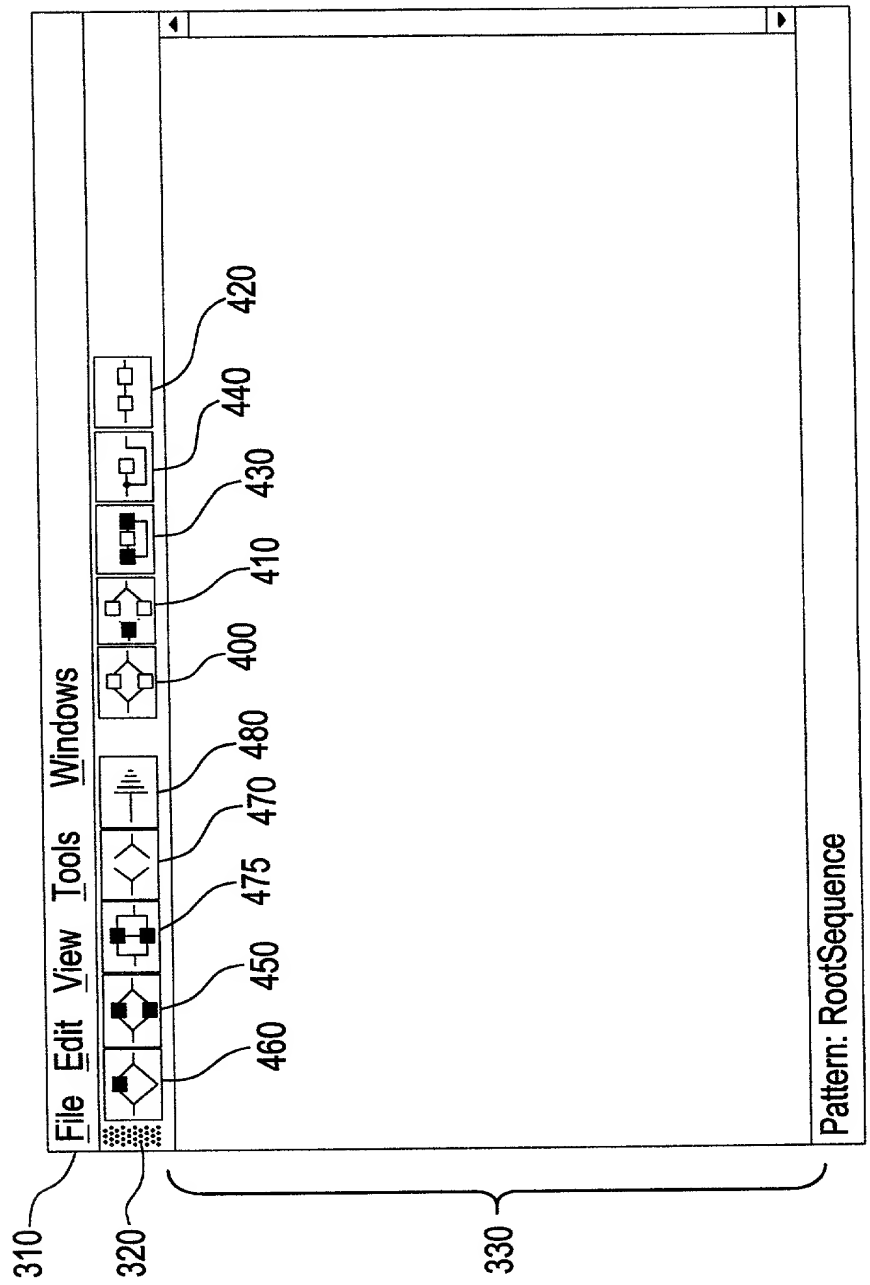

File Edit View Tools Windows
Pattern: RootSequence
310
320
330
400
410
420
430
440
450
460
470
475
480

FIG. 9

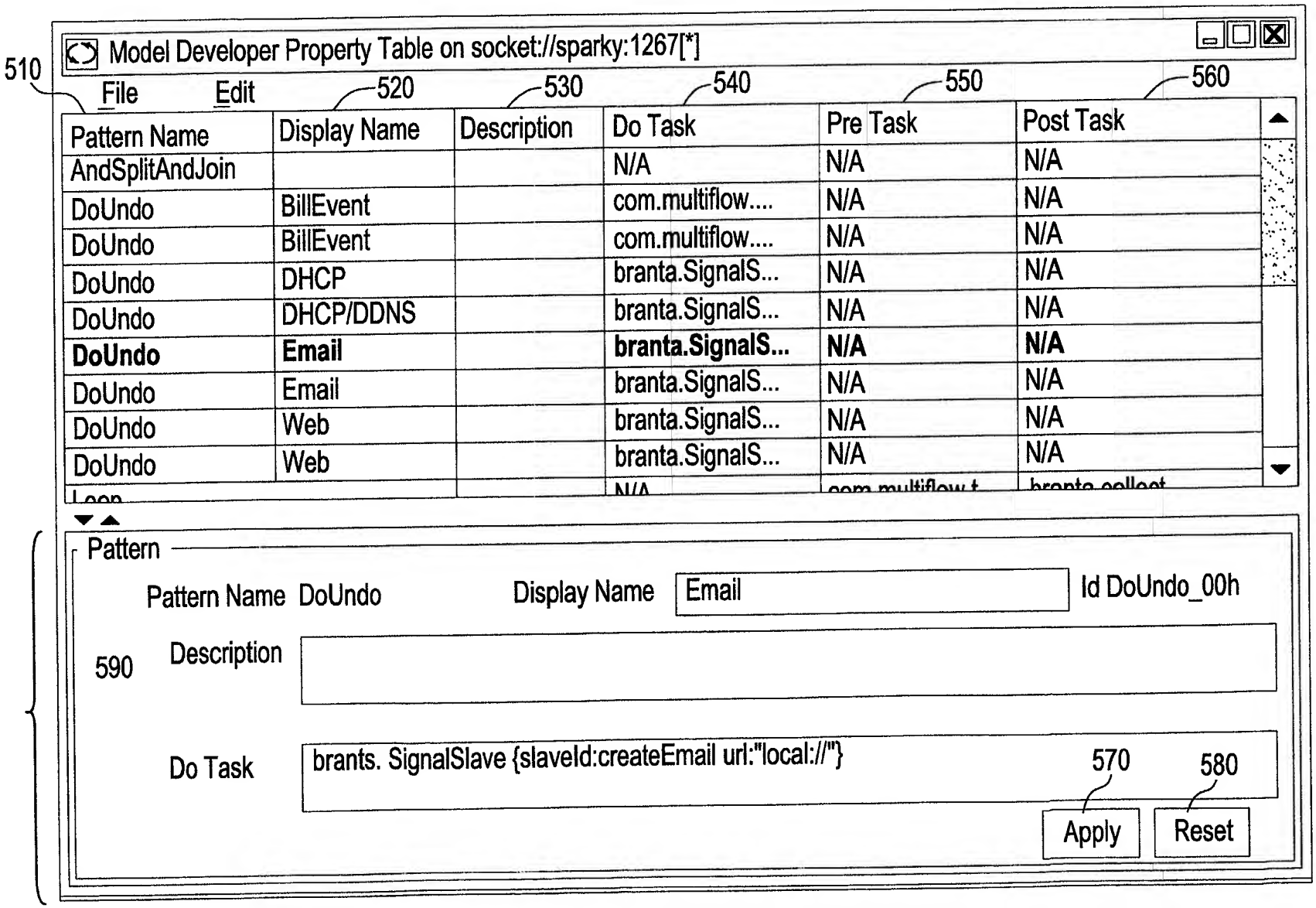

Model Developer Property Table on socket://sparky:1267[*]
510
File
Edit
520
530
540
550
560
Pattern Name
Display Name
Description
Do Task
Pre Task
Post Task
AndSplitAndJoin
N/A
N/A
N/A
DoUndo
BillEvent
com.multiflow....
N/A
N/A
DoUndo
BillEvent
com.multiflow....
N/A
N/A
DoUndo
DHCP
branta.SignalS...
N/A
N/A
DoUndo
DHCP/DDNS
branta.SignalS...
N/A
N/A
DoUndo
Email
branta.SignalS...
N/A
N/A
DoUndo
Email
branta.SignalS...
N/A
N/A
DoUndo
Web
branta.SignalS...
N/A
N/A
DoUndo
Web
branta.SignalS...
N/A
N/A
Pattern
Pattern Name DoUndo
Display Name
Email
Id DoUndo_00h
590
Description
Do Task
brants. SignalSlave {slaveId:createEmail url:"local://"}
570
580
Apply
Reset

FIG. 10

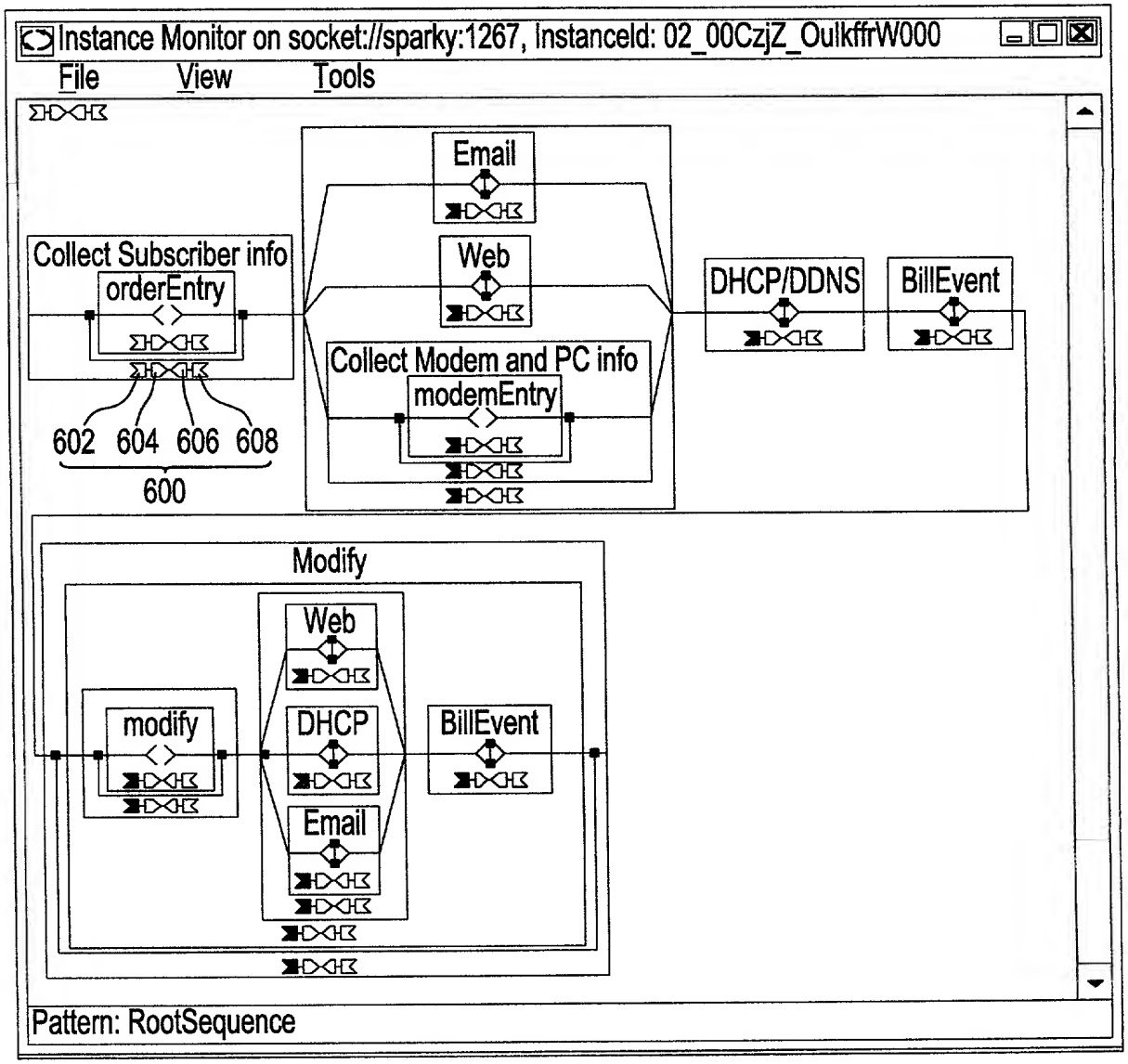

Instance Monitor on socket://sparky:1267, InstanceId: 02_00CzjZ_OulkffrW000
File
View
Tools
Email
Web
Collect Subscriber info
orderEntry
Collect Modem and PC info
modemEntry
DHCP/DDNS
BillEvent
602
604
606
608
600
Modify
Web
modify
DHCP
BillEvent
Email
Pattern: RootSequence

FIG. 11

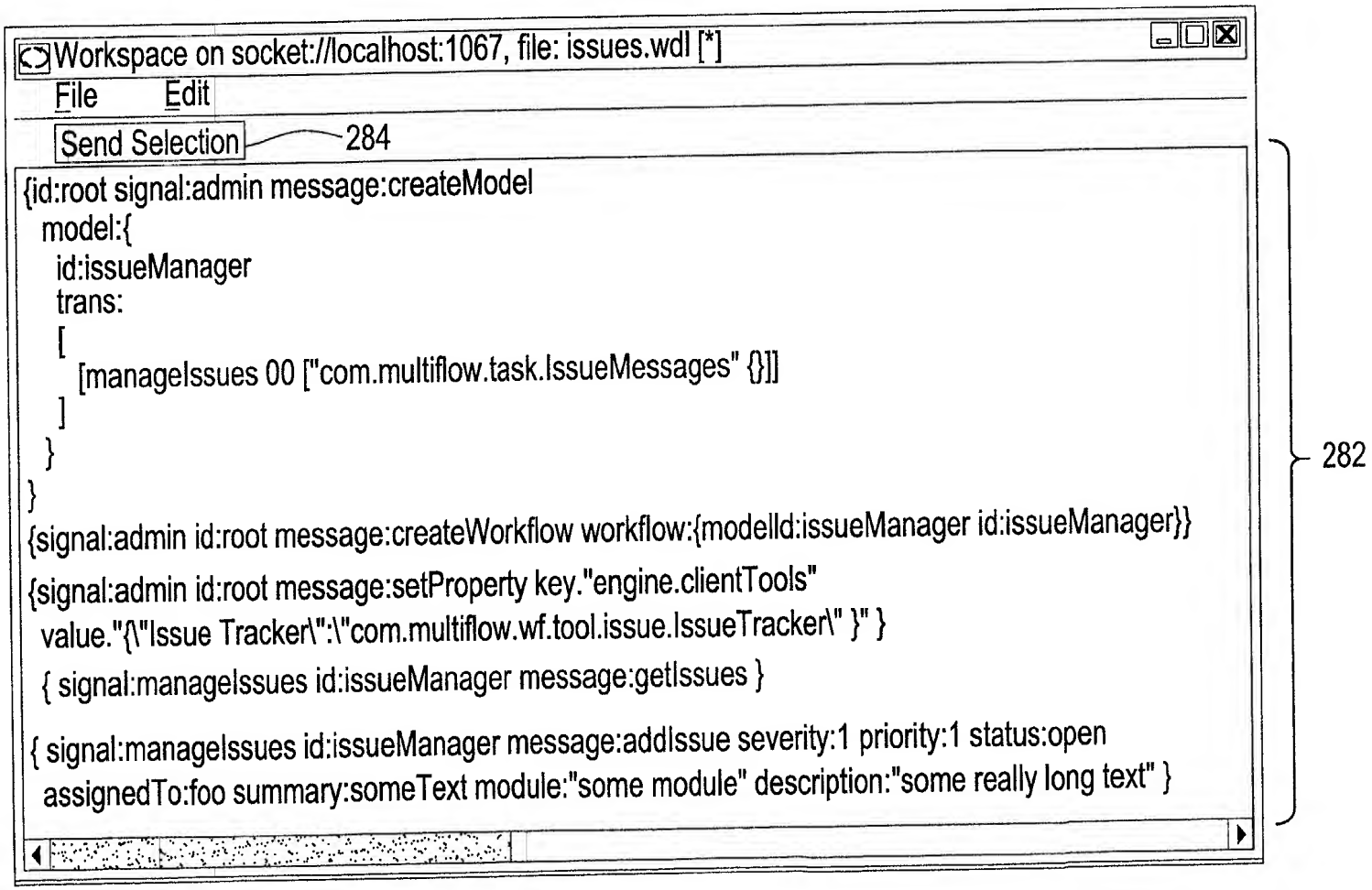

Workspace on socket://localhost:1067, file: issues.wdl [*]
File
Edit
Send Selection
284
{id:root signal:admin message:createModel
model:{
id:issueManager
trans:
[
[manageIssues 00 ["com.multiflow.task.IssueMessages" {}]]
]
}
}
{signal:admin id:root message:createWorkflow workflow:{modelId:issueManager id:issueManager}}
{signal:admin id:root message:setProperty key."engine.clientTools"
value."{\"Issue Tracker\":\"com.multiflow.wf.tool.issue.IssueTracker\" }" }
{ signal:manageIssues id:issueManager message:getIssues }
{ signal:manageIssues id:issueManager message:addIssue severity:1 priority:1 status:open
assignedTo:foo summary:someText module:"some module" description:"some really long text" }
282

FIG. 12

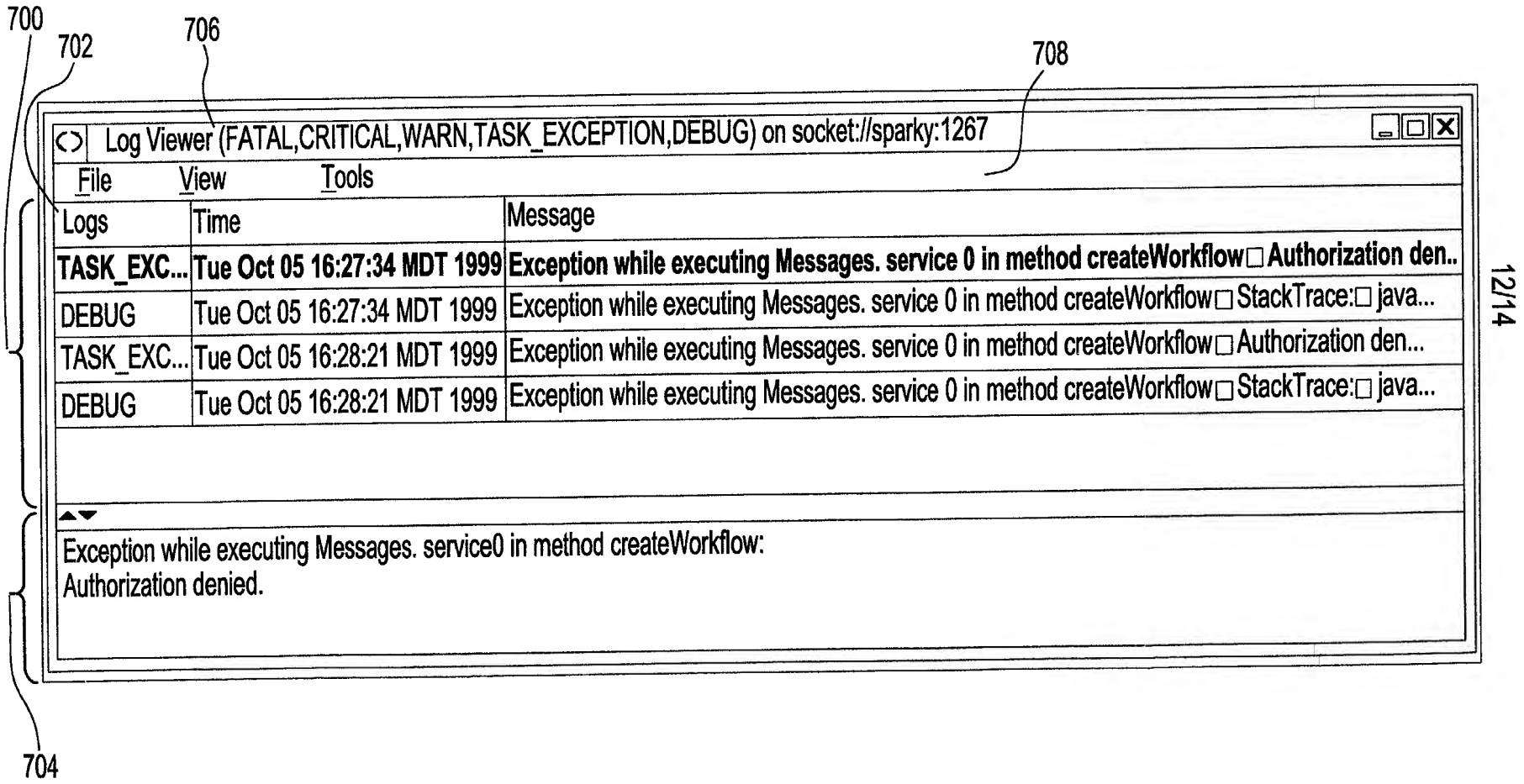

700
702
706
708
Log Viewer (FATAL,CRITICAL,WARN,TASK_EXCEPTION,DEBUG) on socket://sparky:1267
File
View
Tools
Logs
Time
Message
TASK_EXC...
Tue Oct 05 16:27:34 MDT 1999
Exception while executing Messages. service 0 in method createWorkflow□ Authorization den..
DEBUG
Tue Oct 05 16:27:34 MDT 1999
Exception while executing Messages. service 0 in method createWorkflow□ StackTrace:□ java...
TASK_EXC...
Tue Oct 05 16:28:21 MDT 1999
Exception while executing Messages. service 0 in method createWorkflow□ Authorization den...
DEBUG
Tue Oct 05 16:28:21 MDT 1999
Exception while executing Messages. service 0 in method createWorkflow□ StackTrace:□ java...
Exception while executing Messages. service0 in method createWorkflow:
Authorization denied.
704

FIG. 13

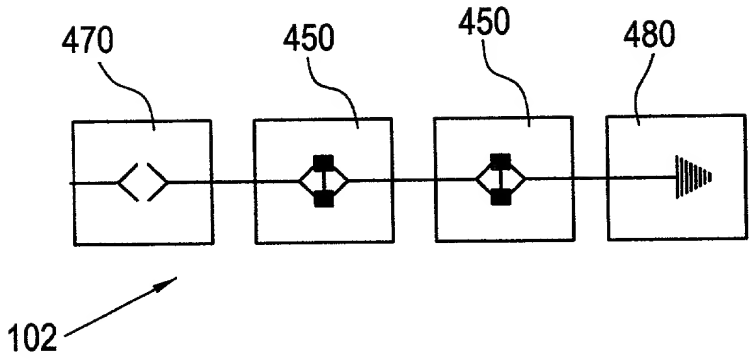


FIG. 14

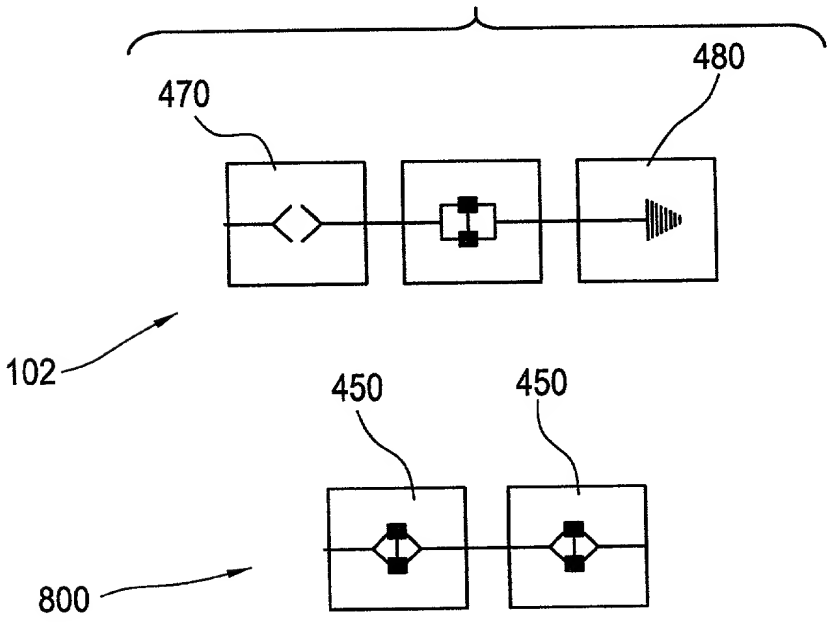
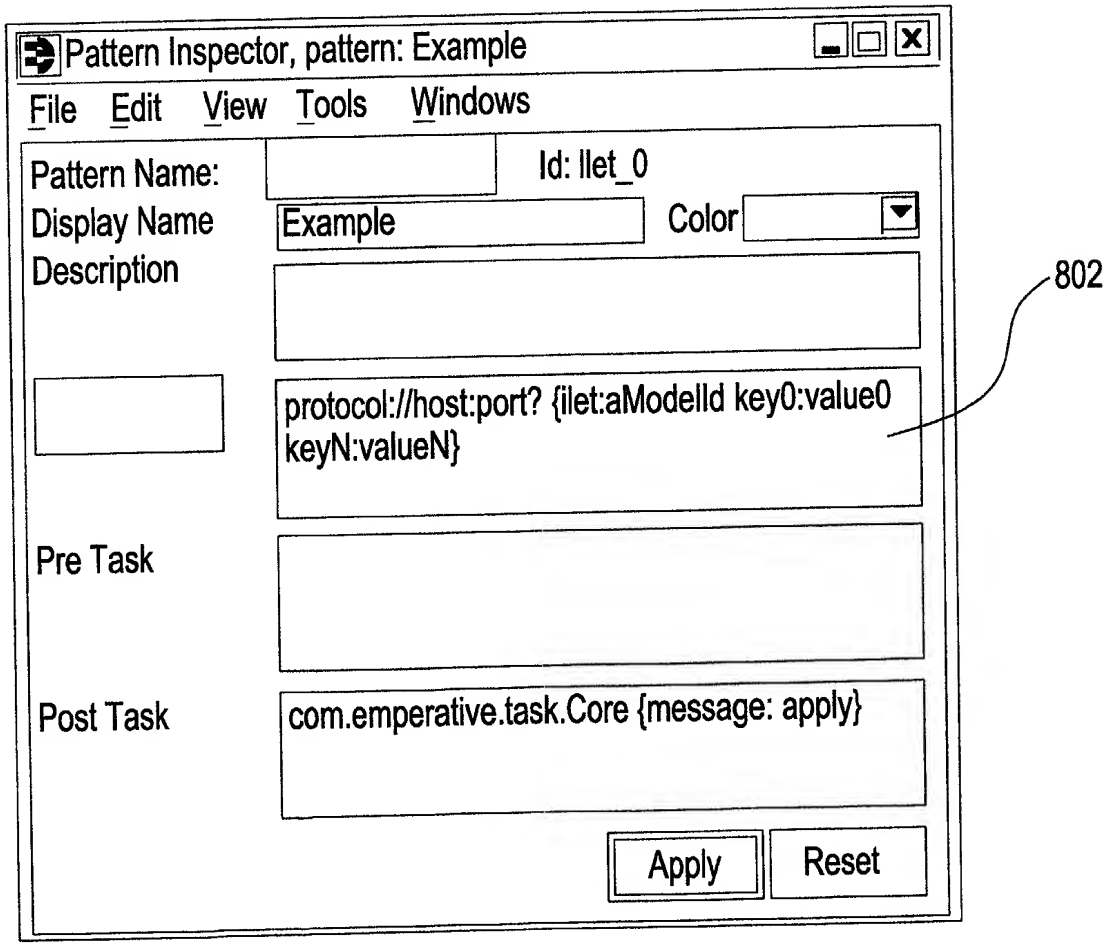


FIG. 15


Pattern Inspector, pattern: Example
File Edit View Tools Windows
Pattern Name:
Id: llet_0
Display Name
Example
Color
Description
protocol://host:port? {ilet:aModelId key0:value0 keyN:valueN}
802
Pre Task
Post Task
com.emperative.task.Core {message: apply}
Apply
Reset